<i>y</i>				Approv	red for use thro	igh 07/31/2006.	O/SB/01 (08-03) OMB 0651-0032	
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		Y OR	Attomey Docket	Number			$\longrightarrow$	
DECLARATION FOR UTILITY OR DESIGN			irst Named Inve	entor	David H. SI	hen		
PATENT APPLICATION (37 CFR 1.63)			COMPLETE IF KNOWN					
			Application Num	ber	based on 60	/431,967		
Declaration	Declaration	on F	iling Date		12/10/2002			
Submitted OR With Initial	Submitted after Initial Filing (surcharge		Art Unit	·····				
Filing (37 CFR 1.16 (e)) required)			Examiner Name	niner Name				
I hereby declare that:  Each inventor's residence, mailing address, and citizenship are as stated below next to their name.  I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:								
DAVID H. SHEN, U.S. CITIZEN, 21037 Dorsey Way, Saratoga, CA 95070								
A HIGH DYNAMIC RANGE RADIO FREQUENCY MIXER								
(Title of the Invention)								
the specification of which  is attached hereto								
OB								
OR  was filed on (MM/DD/YYYY)  as United States Application Number or PCT International								
Application Number		and was amended	d on (MM/DD/	YYYY)			(if applicable).	
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as								
amended by any amendment specifically referred to above.  I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.								
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.								
Prior Foreign Application	Country	Foreign Filing		Prio	rity aimed	Certified Co Yes	opy Attached? No	
Number(s)	Country	(MINI)						
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.								
[Page 1 of 2]								

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/01 (06-03)

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## **DECLARATION** — Utility or Design Patent Application

Direct all correspondence to: Customer Number: OR Correspondence address below											
Name									:		
DAVID H. SHEN, IRF SEMICONDUC	CTOR, INC.										
Address 6 RESULTS WAY											
City				State			ZIP				
CUPERTINO				CA					95014		
Country	Telephone			Fax							
U.S.A.	408-777-8090			408-777-8091			<del></del>				
I hereby declare that all statem and belief are believed to be statements and the like so mad false statements may jeopardize	true; and tur le are punishal	ther that ble by fine	tnese state or imprise	ements onment	or bo	made th, unde	er 18 L	116 6110	MICAGE GIAL WILLIAM GOOD		
NAME OF SOLE OR FIRST IN	VENTOR:		Ар	etition h				unsigr	ned inventor		
Given Name (first and middle [if any]) DAVID H.				Family Name or Surname							
Inventor's Signature Pavel A	1. She								Date 12/4/03		
Residence: City	State			Country			Citizenship				
Saratoga	California			U.S.A.			U.S.A.				
Mailing Address 21037 Dorsey Way	<u> </u>										
City	State				ZIP		-		Country		
Sartatoga	CA				95070				U.S.A.		
NAME OF SECOND INVENTO	R:				<del></del>			en filed	for this unsigned inventor		
Given Name (first and middle [if any])						amily Na Sumar					
Inventor's Signature									Date		
Residence: City	State			Country			Citizenship				
Mailing Address	<u> </u>					<u></u>		•			
City	State			ZIP			Country				
Additional inventors or a legal n	epresentative are t	peing named	on the	_supplem	ental sh	eet(s) PT	O/SB/02	A or 02LF	R attached hereto.		

	Sample Form (former PTO/SB/15) (08-03)
ASSIGNMENT OF APPLICATION	Docket Number (Optional)
Whereas,I, DAVID H. SHEN of 21037 DORSEY WAY, SARATOGA, CALIFO	
referred to as applicant, have invented certain new and useful improvements	in A HIGH DYNAMICA RANGE
RADIO FREQUENCY MIXER	
for which an application for a United States Patent was filed on	
Application Number	
for which an application for a United States Patent was executed on 12/	
Whereas, IRF SEMICONDUCTOR, INC. of ISLAND of GRAND CAYMAN, C	
to "assignee" whose mailing address is 6 RESULTS WAY, CUPERTINO, CA	ALIFORNIA, U.S.A is
desirous of acquiring the entire right, title and interest in the same;	
Now, therefore, in consideration of the sum of ZERO dollars (a older acknowledge, and other good and valuable consideration, I/We, the applicar and transfer unto said assignee the full and exclusive right to the said inventingnts, title and interest in and to any and all Patents which may be granted hereby authorize and request the Director of the U.S. Patent and Tradema Patent to said assignee, of the entire right, title, and interest in and to the said for the use and behoof of his legal representatives, to the full end of the granted, as fully and entirely as the same would have been held by me his made.	d therefore in the United States. I/We ark Office to issue said United States ame, for his sole use and behoof; and term for which said Patent may be ad this assignment and sale not been
executed this the day of December at C lesselts Way Cuperting (A	
at 6 Cosults Way, Cappina in	•
State of Colifornia SS: David to Printed Name	/Registration No., if applicable
County of Santa Clara)	
Before me personally appeared said <u>David H. Sher</u>	114
and acknowledged the foregoing instrument to be his free act and deed this	
DIOM: Not	RACHEL MURILLO ommission # 1342070 ary Public - California  anta Clara County
Seal Packet / William My C	Comm. Expires Feb 1, 2006

forms are submitted. Total of

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, See below.

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STATEMENT UNDER	R 37 CFR 3.73(b)
Applicant/Patent Owner: DAVID H. SHEN	
Application No./Patent No.: Based on Provisional Application No.	60/431,967 Filed/Issue Date: 12/10/2002/New Filing
Entitled: A HIGH DYNAMIC RANGE RADIO FREQUENCY MIXER	२
IRF SEMICONDUCTOR, INC., a CORPORATION (Name of Assignee) (Type of As	signee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:  1.   1.   1.   1.   1.   1.   1.   1.	
2.  an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is —— in the patent application/patent identified above by virtue of either:	%
A. [1] An assignment from the inventor(s) of the patent application in the United States Patent and Trademark Office at Reelattached.	n/patent identified above. The assignment was recorded, Frame, or for which a copy thereof is
OR	
B. [ ] A chain of title from the inventor(s), of the patent application/below:	patent identified above, to the current assignee as shown
1. From: To: To: The document was recorded in the United States Parame, o  2. From: To: To: To: To:	tent and Trademark Office at r for which a copy thereof is attached.
2. From: To: To: To: To: To: To: To: To: To:, Frame, Frame	tent and Trademark Office at
To:     The document was recorded in the United States Par Reel, Frame  [ ] Additional documents in the chain of title are listed or	tent and Trademark Office at , or for which a copy thereof is attached.
[ ] Copies of assignments or other documents in the chain of title [NOTE: A separate copy (i.e., the original assignment docume must be submitted to Assignment Division in accordance with recorded in the records of the USPTO. See MPEP 302.08]	ent or a true copy of the original document)
The undersigned (whose title is supplied below) is authorized to at $12/4/2003$	ct on behalf of the assignee. $ANNP.SHEN$
Date 408 777 80 90	Typed or printed name
Telephone number	Signature Signature
	CFO
	Title

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